

GIA – Get Intune Assignments

<https://sibranda.github.io/GetIntuneAssignments/>

Developed by

Sidnei Brandão

<https://www.linkedin.com/in/sidnei-brandao-9925725a/>

<https://github.com/sibranda>

With the collaboration of

Luís Henrique Demetrio

<https://www.linkedin.com/in/luisdem/>

Beta tester, contribution and improvements of

Gustavo Alves

<https://www.linkedin.com/in/galves-br/>

Beta tester and collaboration of

Ricardo Mendes

<https://www.linkedin.com/in/ricardo-silveira-mendes-095279/>

About

Get Intune Assignments is a C#.NET free app built for Intune that queries Intune and Entra ID via MS Graph.

This app aims to retrieve all active Intune item assignments.

The focus is to retrieve Assignments, so if you have an item (policy, settings, app) but it does not have an assignment, GIA will not report it.

You can also export the data to a CSV file if desired.

Please send me any comments you would like. This can help me fix bugs and create better solutions to help everyone.

Copyrights Warranty and Support

This application is **completely free**. I created it for **personal** needs and my **work** needs, as it was extremely useful, I decided to share it with the community.

I created this app in my spare time which I don't have much of, like most people, so I can't provide support or guarantee that the app will work as expected in your environment.

I'm just trying to do my part in the world.

You don't need to use this app; you don't need to be rude to me because you don't know me and don't trust me or think the app is malicious. Like I said: you have no obligation to use the app. If you want to give it a try, I hope it can be helpful to you and/or your clients.

And **feel free** to **send** me **feedback** as it helps everyone.

Document Version

This document was updated on **April 04, 2024**.

Requirements

User access to Intune and Entra ID Resources:

Users must have access to **Read All** Intune Items and queries for Entra ID Groups, Devices and Users.

Create/Register an Entra ID App to Get Intune Assignments and get data from the environment.

Follow the **Read Rights** the User and the App may need:

```
Device.Read.All
DeviceManagementApps.Read.All
DeviceManagementConfiguration.Read.All
DeviceManagementManagedDevices.Read.All
DeviceManagementServiceConfig.Read.All
Group.Read.All
GroupMember.Read.All
Policy.Read.All
User.Read.All
```

Creating an App Registration on your ENTRA ID.

GIA uses an **App Registered** to get MS Graph Token Authentication to be able to query your Intune and Entra ID Environment.

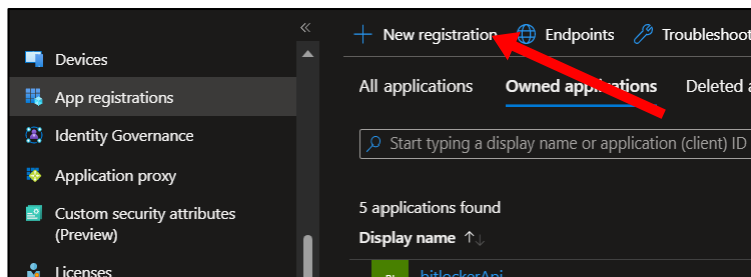
Note

You can use any App you already have if your App have the **Read** Permissions Required.
For Best Practices and Safety use an App with **Read Only** Permissions

Log in to the Entra ID Portal with an user who have permission to register Apps.

Go to the [App Registrations](#) Blade.

Click **New registration** to create an App:



Give a **Name** for your application i.e., **"GIA"**.

Select the Supported account types i.e., **"Accounts in this organizational directory only (YOURDOMAIN.COM only - Single tenant)"**

At **Redirect URI** (optional) choose **Public client/native (mobile & desktop)** and enter the following address:

"https://login.microsoftonline.com/common/oauth2/nativeclient"

Click the **Register** button.

Register an application ...

* Name
The user-facing display name for this application (this can be changed later).
GIA ✓

Supported account types
Who can use this application or access this API?
☒ Accounts in this organizational directory only (YOURDOMAIN.COM only - Single tenant)
☐ Accounts in any organizational directory (Any Microsoft Entra ID tenant - Multitenant)
☐ Accounts in any organizational directory (Any Microsoft Entra ID tenant - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)
☐ Personal Microsoft accounts only
[Help me choose...](#)

Redirect URI (optional)
We'll return the authentication response to this URI after successfully authenticating the user. Providing this now is optional and it can be changed later, but a value is required for most authentication scenarios.
Public client/native (mobile & desktop) https://login.microsoftonline.com/common/oauth2/nativeclient ✓

By proceeding, you agree to the [Microsoft Platform Policies](#)

Register

After creating/registering the App. **Copy** your **application (client) ID** to use in GIA settings:

GIA ...

Search < Delete Endpoints Preview features

Overview

Quickstart

Integration assistant

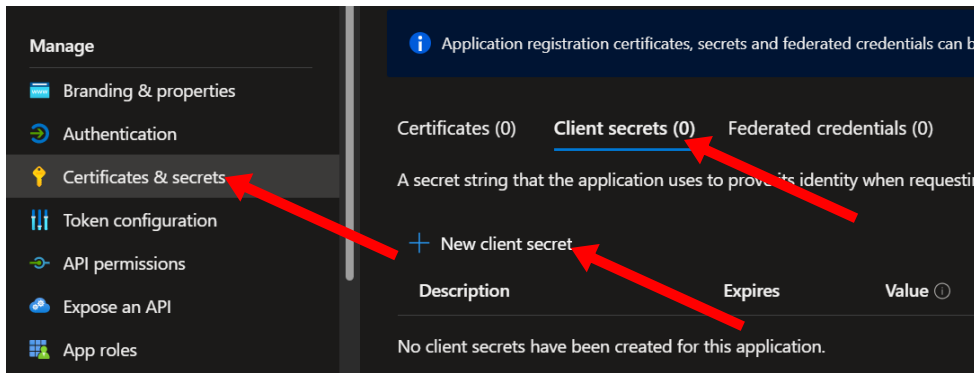
Essentials

Display name : GIA

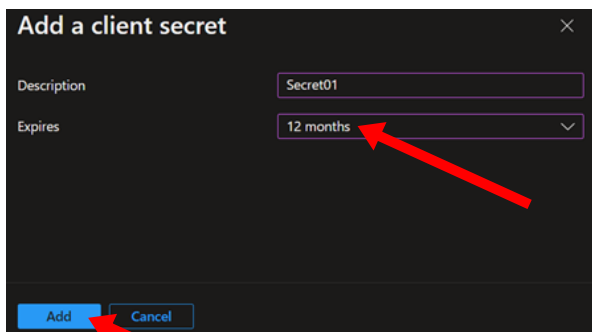
Application (client) ID : [redacted] Copy to clipboard

If you want to use **Client Secret (optional)** you can click **Certificate & secrets** to create a secret to your App:

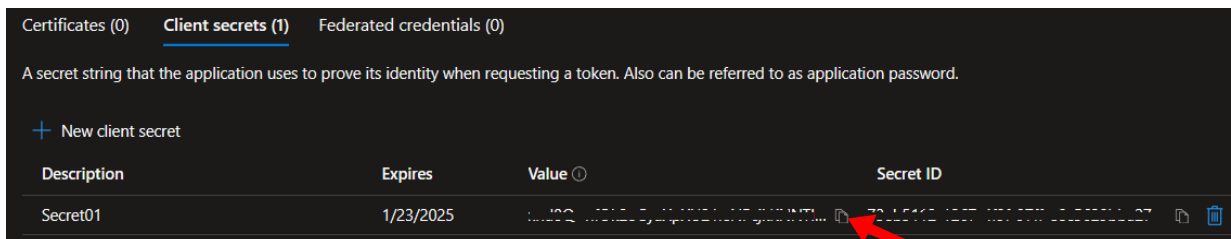
Click on **Client secrets** and “+ New client secret”:



Determine how much time you want your secret to **expire** and click the **Add** button:



When finished **copy the Value** of the Secret:



Note

After creating Secrets, you **Need to Copy** the **Value**.
The value will be hidden after you leave this page.
So, **Don't Forget to copy** the Value before leave.

Starting with Get Intune Assignments Application.

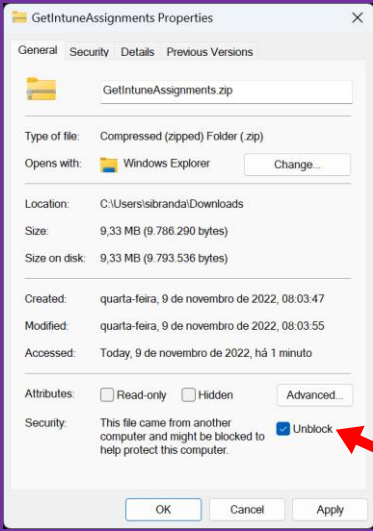
Go to the **Folder** where you **download** the **Get Intune Assignments** Application:

First, check if the Zip file you downloaded is not **Locked**.

Note

When the file is downloaded from internet
It can be blocked for safety.
Check if your Zip file is not **Blocked**:

Before Extract
Right click on the file
Go to the **Properties**
Uncheck the “**Unblock**” checkbox if need!
Click **Ok**.
Then, you can extract the content.

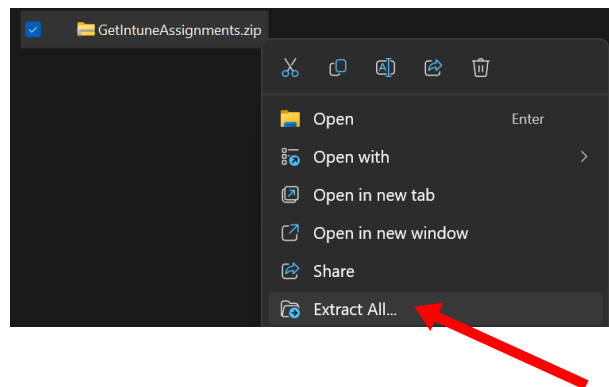


Extract Get Intune Assignments App from zip file

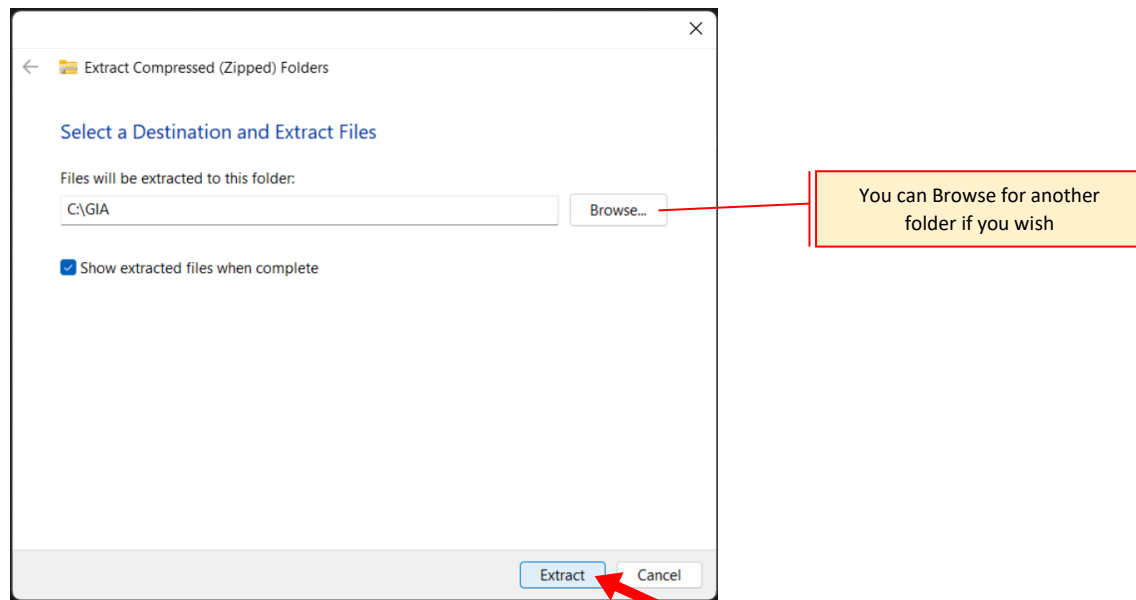
You can use any tool you want for this.

Here is how to use **Windows Compressed Folder** to extract:

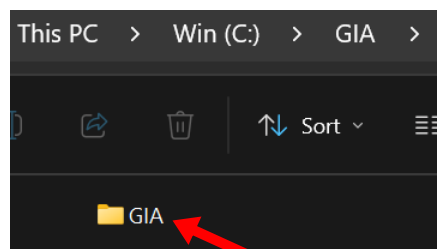
Right click on the File and Click on **Extract All...**



In the wizard window hit **the Extract** button and wait to complete.

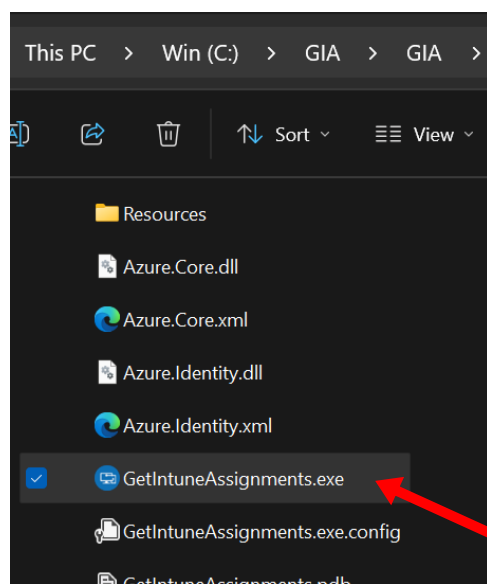


Will be created a new **folder** at directory you choose:



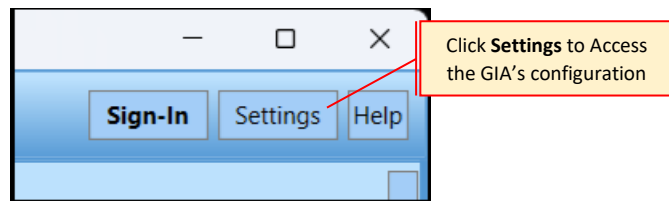
Open this folder and locate the **GetIntuneAssignments** executable file.

Double click to run the Application.



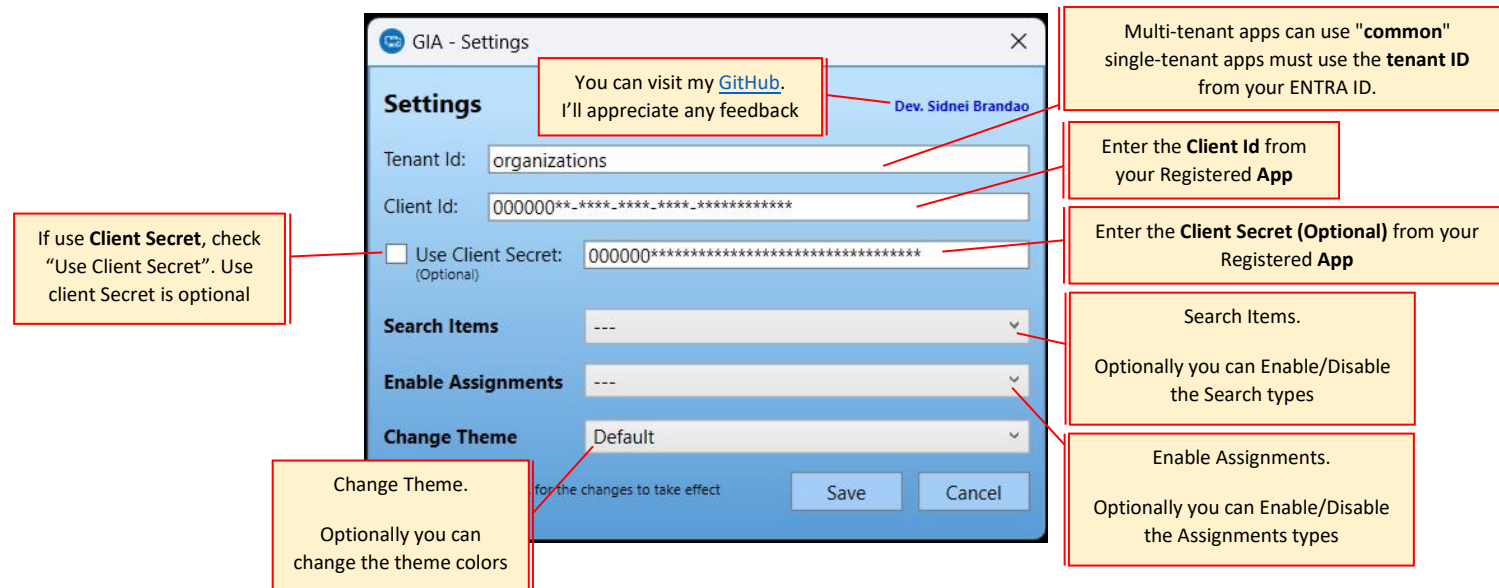
Configuring Get Intune Assignments Application.

In the Main Windows from **Get Intune Assignments** click the **Settings** button in the upper right corner.



Enter your environment data like **Client Id**, **Tenant Id** and Client Secret if's needed.

Then click **Save** button to save the settings.



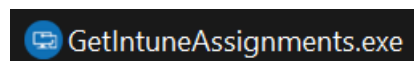
Note

Be sure to enter the correct application (Client Id) from your app to Get Intune Assignments Work properly. Get Intune Assignments Will **Restart** to apply the changes.

Running Get Intune Assignments Application.

After configuring all the settings you can **Run the application.**

Just execute **GetIntuneAssignments.exe**



The Application will start.

Click on **Sign-In** Button and enter your **Entra ID User** who has **Rights to read Intune** and **Entra ID** objects.

First Time Sign-In using a User, the Permission dialog box will ask you to **consent/accept the permissions**.

Permissions requested

GIA

This application is not published by Microsoft.

This app would like to:

- ✓ Read all devices
- ✓ Read Microsoft Intune apps
- ✓ Read Microsoft Intune Device Configuration and Policies
- ✓ Read devices Microsoft Intune devices
- ✓ Read Microsoft Intune configuration
- ✓ Read all groups
- ✓ Read group memberships
- ✓ Read your organization's policies
- ✓ Read all users' full profiles
- ✓ Maintain access to data you have given it access to

☐ Consent on behalf of your organization

Accepting these permissions means that you allow this app to use your data as specified in their terms of service and privacy statement. You can change these permissions at <https://myapps.microsoft.com>. [Show details](#)

Does this app look suspicious? [Report it here](#)

Cancel Accept

Note
ALL Permissions application needs is set to **READ**.
Get Intune Assignments **Can't** and **Won't** change anything in your environment

Optionally you can check Consent on behalf of your organization

Confirm everything is **READ** permissions.

If you want, check the “Consent on behalf of your organization” then click **Accept Button**

Consent on behalf of your organization is optional for user authentication.

Note

Get Intune Assignments needs **Read Only** permissions.
The App will **NEVER** change anything in your environment.

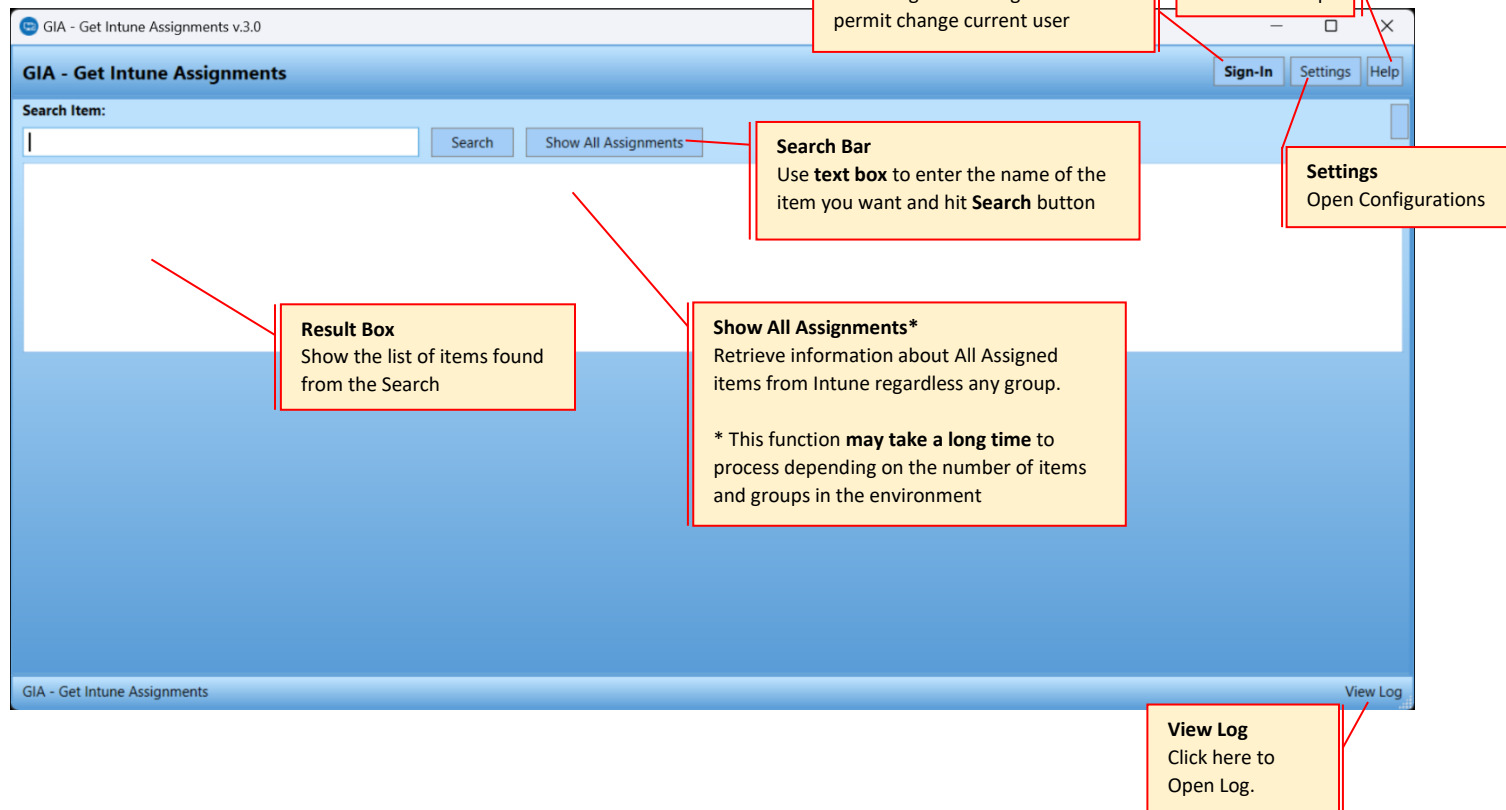
After the Accept you can see the user is **Signed In**:

Welcome sidnei@ Sign-Out Settings Help

Signed user UPN.
If using Secret App, GIA will show: **Using App Secret**

GIA Interface.

This is the new interface from **GIA 3.0**.



How to retrieve Information from specific ENTRA ID Group.

Type any string to search for a group and hit **Search** Button:

After searching, just **click on the item** you want to retrieve Information.

The screenshot shows the GIA - Get Intune Assignments v.3.0 application. The interface includes a search bar at the top left with the text "autopilot" entered. Below the search bar is a list of groups, with "Group - Intune - Devices - Windows - Autopilot Dynamic" selected. To the right of the search bar is a "Selected Item" section showing "AUTOPILOT0171 Information". Below the search bar is a "List of Members" section showing a list of devices, including "AUTOPILOT0171", "AUTOPILOT1498", "AUTOPILOT2783", "AUTOPILOT9194", and "DESKTOP-TV874DL". At the bottom left are "Export All" and "Export Selected" buttons. At the bottom right are "You can Resize the Panel" and "You can Resize the Window" callouts.

Name or string to search

Search Item:

autopilot

Search **Show All Assignments**

Group - Intune - Autopilot Devices - Self-Deploying
Group - Intune - Autopilot Devices - User-Driven
Group - Intune - Autopilot Devices - User-Driven Pre Provisioned
Group - Intune - AutoPilot Users
Group - Intune - Devices - Windows - Autopilot Dynamic
Device - AUTOPILOT0171
Device - AUTOPILOT1498
Device - AUTOPILOT2783
Device - AUTOPILOT9194

Selected Item

Selected Item:
Group: Intune - Devices - Windows - Autopilot Dynamic

AUTOPILOT0171 Information

Information Primary User Logged On User Member

Item	Value
Aad Registered	True
Device Id	a57c2b17-004b-4ff8- a57c2b17-004b-4ff8-
Device Name	True
Device Type	False
Device Registration State	unknown
Compliance Grace Period Expiration Date Time	08/02/2024 20:58:04
Compliance State	noncompliant
Device Category Display Name	Corporate Devices
Device Enrollment Type	windowsAzureADJoin
Device Firmware Configuration Interface Managed	False
Device Name	AUTOPILOT0171
Device Registration State	registered
Device Type	windowsRT
Eas Activated	True

Group Information

App Configuration Policies: 0
App Protection Policies: 0
Applications: 0
Autopilot Configurations: 0
Autopilot Devices: 0

Export All **Export Selected**

Intune - Devices - Windows - Autopilot Dynamic

Total Members: 5
Result is limited to 50 (Use Search)

List of Members

AUTOPILOT0171
AUTOPILOT1498
AUTOPILOT2783
AUTOPILOT9194
DESKTOP-TV874DL

Show 50 First members from selected Group

This section shows how many assignments was found targeting the selected item.
Note: if none was found you will see "0" objects

Export All
Use to Export **All** assignments result to a CSV file

Export Selected
Use to Export the **selected** assignments result to a CSV file

Group Information Including overview and Members

You can Resize the Panel

You can Resize the Window

To retrieve the information about the **Assignments**, click on the Item you want i.e. Device Configuration Profiles:

The screenshot shows the GIA - Get Intune Assignments v.3.0 application. The interface includes a search bar, a list of groups, a sidebar with policy counts, a central table of device configuration profiles, and a detailed view of a selected item on the right. Annotations highlight key features:

- Search Item:** A search bar containing "windows" and a "Show All Assignments" button.
- Group List:** A list of groups under the heading "Group - Intune - Devices - Windows - All".
- Sidebar:** A sidebar showing counts for various policy types: Autopilot Devices: 0, Conditional Access Policies: 0, Device Compliance Policies: 1, Device Configuration Profiles: 4, Endpoint Security Policies: 0, and Enrollment Restrictions: 0. A red arrow points to "Device Configuration Profiles: 4" with the annotation: "Click on Device Configuration Profile to check details".
- Device Configuration Profiles Table:** A table with columns "Display Name" and "Group Name". It lists several profiles, with "Win Intune Data Collection Policy" highlighted. A red box around the table is annotated: "Information about the Device Configuration Profiles assignments in the Selected Group".
- Selected Item Details:** A detailed view of the "Win Intune Data Collection Policy" on the right. It includes tabs for "Information", "Device Status", and "User Status". A red box around this section is annotated: "Information about the selected assignment item. Note: Some types of assignments may not have Status information."

The application footer shows "Ready" and "View Log".

Retrieving Information from All Intune Assignments.

You can retrieve **all Intune assignments**, regardless of groups, users or devices.

In this case, you don't need to look for any item.

Just click the button 

Note

Remember that **GIA only brings** items that **have Assignments** configured, if you don't see an item from your environment, it probably doesn't have an assignment for any user, device or group configured.

Note

Keep in mind this action **may take a long time** to process depending on the number of Items and groups in the environment.

Group Members Information.

Starting on **GIA 3.0** you can retrieve more information about **Group members**, like **primary users**, **logged on user** and **member off**.

You just need to search for a group and select a **member**:

GIA - Get Intune Assignments v.3.0

Using App Secret **Sign-Out** **Settings** **Help**

Search Item:
windows

Group - Intune - Devices - Windows - All

- Group - Intune - Devices - Windows - All CoManaged
- Group - Intune - Devices - Windows - Autopilot Dynamic
- Group - Intune - Devices - Windows - Shared Multi-User
- Group - Intune - Windows - Disable Microsoft Store
- Group - Intune - Windows - Enable Windows Hello for Business
- Group - Intune - Windows - Endpoint Security - Account Protection
- Group - Intune - Windows - Endpoint Security - Account Protection - LAPS
- Group - Intune - Windows - Endpoint Security - Baseline for Windows 10

Results: 23

Group Information

App Configuration Policies: 0

App Protection Policies: 0

Applications: 1

Autopilot Configurations: 0

Autopilot Devices: 0

Results: 12

Intune - Devices - Windows - All

Total Members: 9
Result is limited to 50 (Use Search)

AUTOPILOT0171

- AUTOPILOT1498
- AUTOPILOT2783
- AUTOPILOT9194
- CLIENT1
- CLIENT2
- DESKTOP-C8916NL
- DESKTOP-TU874DN

Item

createdDateTime
displayName
id
mailEnabled
membershipRule

AUTOPILOT0171 Information

Information **Primary User** **Logged On User** **Member**

Intune - Autopilot Devices - User-Driven

Intune - Devices - All

Intune - Devices - Windows - All

Intune - Devices - Windows - Autopilot Dynamic

Intune - Windows - Endpoint Security - Account Protection - LAPS

Intune - Windows - Endpoint Security - Bitlocker

Intune - Windows - Endpoint Security - Defender Antivirus

Total Groups: 7

Ready View Log

Tabs and information may vary depending on the selected member.

New Items to search.

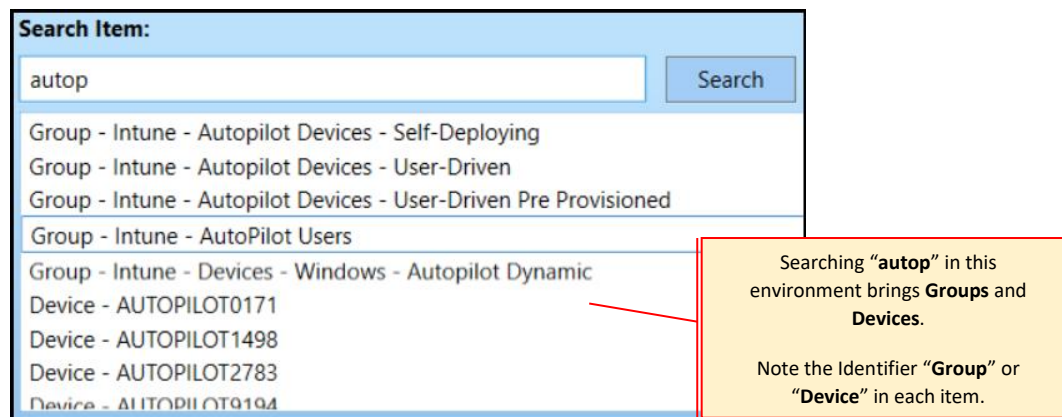
Starting in **GIA3**, in addition to the standard search for Entra ID **groups**, you can also search for **devices** and **users**.

Also, was added the capability to search for **Entra ID Groups** using the object ID. This can be useful to search for deleted groups.

You can search by the following fields:

- Group Name
- Device Name
- User Display Name
- User UPN (mail)
- **If enabled**, you can search Entra ID **Group** by **Object ID**

Check the **example** below:



The screenshot shows a search interface with a text input field containing 'autop' and a 'Search' button. Below the input field is a list of search results. A red line points from a text box to the first result.

Search Item:
Group - Intune - Autopilot Devices - Self-Deploying
Group - Intune - Autopilot Devices - User-Driven
Group - Intune - Autopilot Devices - User-Driven Pre Provisioned
Group - Intune - AutoPilot Users
Group - Intune - Devices - Windows - Autopilot Dynamic
Device - AUTOPILOT0171
Device - AUTOPILOT1498
Device - AUTOPILOT2783
Device - AUTOPILOT9194

Searching "autop" in this environment brings **Groups** and **Devices**.

Note the Identifier "**Group**" or "**Device**" in each item.

Version History

ver. 3.0 – April 04, 2024

- Added new themes including color-blind high contrast.
- Created a new settings dialog box with combos.
- Created a new panel for assignment detail.
- Created a new panel for details about group members.
- Logs folder location changed to %temp% folder.
- New icon.
- New title bar with Maximize/Restore function.
- Re-design window appearance
- Removed the undock window function.
- Show the result status of the assignment.
- New information tabs for assignments, groups, devices and users.
- Added Functions:
 - Autopilot devices.
 - Bring assignments target All Devices and All Users.
 - Clear button in membership search.
 - Filter assignments resulting information.
 - Information about Logged on user.
 - Information about Primary User for devices.
 - Information from Group, devices and users.
 - Member of from devices and users.
 - Merged all types of devices configurations in a single assignment item.
 - Status information from assignments (which are support).
 - Search assignments in UpLevel groups.
 - Search and retrieve information for devices and users.
 - Search function for members.
 - Search group by ID.
- BUG Fix
 - Created a clear button in the member search box.
 - Fixed catalog settings missing assignments.
 - Fixed columns in export csv file.
 - Fixed group search limit.
 - Fixed groups names on logs.
 - Fixed missing status bar messages.
 - Fixed tip color from Dark theme
 - Hand cursor for all buttons.
 - Search limit results for groups.

ver. 2.1 – Mai 25, 2023

- Re-design window appearance
- Removed description column.
- Single window app
- Added Functions:
 - Export All or Selected Assignment Types
 - Group Information
 - Member Detail
 - Member Search
 - Undock / detach Result Window
- BUG Fix
 - Error when app size is too big
 - Export All be inactive when any assignments are unchecked from settings
 - Fixed Graph paging when the result exceeds number of results
 - Fixed Group information devices Ids
 - Fixed interface errors
 - Fixed theme colors missing objects
 - Group members count was not working

ver. 2.0 – April 17, 2023

Added inclusion or exclusion group information for supported assignments.

Checking Intune Assignments scroll bar support.

Encrypted tenant data in config file

Multi window support

Scroll bar on Assignments window.

Setting new options to enable/disable assignments information.

Added Functions:

- Autopilot Configurations
- Enrollment Restrictions
- iOS App Provisioning Profiles
- Proactive Remediations

BUG Fix

- Fixed multi errors messages when a group couldn't be retrieved
- Fix checkbox color in dark theme
- Fixed CSV Export Format
- Fixed Description texts
- Fixed Sign-Out when using app secret
- Minor interface bugs fixed

ver. 1.5 – November 07, 2022

Added support to use app secret (optional)

Apps now show available or required.

Introducing the Acronym GIA

Added Functions:

- Policy Sets

BUG Fix

- PowerShell Scripts missing from report

ver. 1.4a – September 23, 2022

Graphical Interface enhancements

New title bar and window visuals

Added Functions:

- Auto Restart when changing Settings

BUG Fix

- Fixed Messages Box to show correct information
- Export to file now include all Items
- Minor bugs fixed
- Save config file if was changed
- Windows position in current monitor

ver. 1.3b – September 20, 2022

Created customized Title Bar

Created Settings Dialog to Configure Client ID and Tenant

Dark Theme

First released Beta Version

Added Functions:

- App Configuration Policies
- App Protection Policies

BUG Fix

- Fixed Alphabetical order in results

ver. 1.3a – September 14, 2022

Created Help function and Doc.

Released this version to Alpha Test.

Added Functions:

- Export to CSV File
- Show All Intune Assignments Regardless of Azure AD Group

BUG Fix

- Fixed error on export Applications with Description in Multiline
- Minor errors fixed

ver. 1.2b - September 10, 2022

First beta version using C#.Net.

Added Functions:

- Conditional Access
- Created Sign-Out Function
- Created writeLog Function
- PowerShell Scripts

ver. 1.2a - September 09, 2022

Added Functions:

- Applications
- Device Compliance Policies
- Device Configuration Profiles
- Device Settings Catalog
- Endpoint Security Policies

BUG Fix

- Fixed Dialog Windows
- Minor errors fixed

ver. 1.1a - September 02, 2022

Added Functions:

- Applications
- Device Compliance Policies

BUG Fix

- Fixed interface commands to Search
- Enhanced GUI objects
- Minor errors fixed

ver. 1.0a - August 30, 2022

Created the Main Form

Function to Check Adm Templates

Function to search AAD Groups

Starting to rebuild in C# .NET framework.

ver. 0.2b - August 25, 2022

Added Endpoint Security Policies

BUG Fix

- Minor errors fixed

ver. 0.1c - August 24, 2022

Removed the need for AzureAD Module increasing speed in Groups query.

BUG Fix

- Fix two requests for authentication
- GUI fixes and improvements

- If a new group was created with Script running it was not possible to find the new

group

- Fix description column position
- Fix groups search

ver. 0.1b - August 22, 2022

Created the name "Get Intune Assignments".

Function to search and retrieve assignments from the selected group.

Function to retrieve all Assigned items from Intune regardless of any group.

The First version of who worked without many bugs.

Added Functions:

- Applications
- Device Configuration Profiles
- Delivery Optimization
- Device Restrictions
- Identity Protection
- Trusted Certificate
- Device Settings Catalogs
- PowerShell Scripts

ver. 0.1a - July 27, 2022

The First version with GUI.

Added Administrative Templates and Device Catalogs

ver. 0.0b - July 05, 2022

New script to get Compliance Policies

ver. 0.0a - June 15, 2022

Just a bunch of command line scripts in PowerShell to get Configuration Profiles and Apps.

Thanks to all who collaborate and gave feedback to make GIA Better.